

# ***Middlesex County Utilities Authority***

## ***Hurricane Sandy Update***

***January 29, 2013***

### **FEMA, USACE, USEPA and NJDEP**

Federal and State agencies have visited the site and are fully briefed on the bypass operations of the MCUA. Both agencies are constantly monitoring the situation and have been providing whatever resources the MCUA needs.

### **Service Interruptions**

None reported

### **Central Wastewater Treatment Plant**

The Central Treatment Plant is fully operational and is handling all wastewater and trucked waste entering the plant in Sayreville. Currently, the Central Treatment Plant is being powered by the Landfill Gas to Energy Facility and local electric utility.

The average rate of wastewater flow entering the Central Treatment Plant:  
91 million gallons a day

### **South Amboy Pump Station**

Operational

Repairs to damaged equipment are being performed by MCUA, which are ongoing.

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

1-2 million gallons a day

### **Edison Pump Station**

Operational

Five Main Pumps capable of conveying 85 MGD to the Central Treatment Plant are in operation.

Main Pump 5 completed, functional and anticipated to be placed into operational rotation following programming adjustments for pump speed which has been rescheduled to next week.

Repairs to electrical, mechanical and control equipment in the pump station continue; new main air compressors for control system are operational with dryer functions.

On-site emergency generators are functional in the event of loss of electric utility power; however, generator automatic control issues remain to be resolved; additional Emergency Generator tests to be performed.

Emergency work nearing completion; Contractors in the process of demobilization.

Bypass pumping system capable of handling 20 -24 mgd is in standby mode.

Currently, the Main Pumps are able to convey 85 million gallons per day of wastewater to the Central Treatment Plant, which exceeds the average daily amount of wastewater that enters the station.

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

14 million gallons a day

### **Sayreville Pump Station**

#### **Original Sayreville Pump Station**

Operating Main Pumps 2E and 3E [rated capacities of each pump 33MGD @ 102 feet Total Head], continuing the evaluation of pump hydraulic and mechanical performance; tests performed indicate Pumps 2E and 3E are capable of conveying approximately 80 MGD.

Continuing hydraulic evaluations of pump system conveyance capacity; draft report on the findings has been completed and is under review, further evaluations are ongoing.

Controls to permit manual back-flushing of Main Pumps 2E and 3E by MUA Operators remain operable; back-flushing of both pumps was performed today.

Bar Screen No. 1 ready for operation upon introduction of flow through the OSPS influent channel.

### **Sayreville Relief Pump Station**

Operating Bar Screen Nos. 1 and 2, and Interconnection channel between SRPS Wet Well and OSPS Wet Well; installed repaired screw press motor and continue to investigate electrical short in conveyor for bar screen debris removal system.

Completed alignment of Main Pump No. 3R Motor and Shafts and grouted Motor in place.

Completed discharge header draining and changed remaining taps, nipples and valves for various instruments and control devices; reactivated the 102 in. force main. All flow to the Central Treatment Plant is now being conveyed through both the 72 in. and 102in. force mains.

Completed work on the accumulator systems required for the operation of the pump discharge control valves and the surge system valves; tested system and valves are operational; work remaining is connection to control system and final adjustments.

Completed electrical power connections for Main Pump No. 3R at motor and 5kv switchgear; continued wiring exciter circuit for Main Pump No. 4R

Completed control wiring for Main Pump No. 3R; terminated excitation and starter controls at 5kv cubicle; installed vibration sensors for Main Pump No. 3R to monitor pump operation; installed rack for control panels to operate Main Pump Nos. 4R, 5R and 6R.

### **Temporary Bypass Pumping System**

Operational

System operation has been on an intermittent basis due to Main Pumps 2E and 3E conveying all of the dry weather flow today to the Central Treatment Plant. Temporary Bypass Pumps were not in operation today.

Performed maintenance: completed freeze protection and repairs; demobilizing equipment used to thaw pipes; and prepared system for operation during the forecasted upcoming wet weather event.

Initiated installation of a Temporary Bypass Pumping System at the Weber Ave. Meter Chamber in the Borough of Sayreville. Upon completion, this System will isolate the MCUA Interceptor pipeline sewage flow from the local sanitary sewer collection system to mitigate potential impacts during wet weather events.

The estimated average rate of wastewater flow conveyed by the Main Pumps and/or Temporary Bypass Pumping System to the Central Treatment Plant:  
75 million gallons a day

### **Temporary Wet Weather Overflow Facilities**

WW-1 Facility at SPS site completed with floatables control system  
WW-2 Facility at MCLF completed with floatables control system  
WW-3 Facility at MCLF completed with floatables control system  
WW-4 Facility at MCLF:

- Pump WW 4-1 completed with floatables control system
- Pump WW 4-2 completed with floatables control system
- Pump WW 4-3 completed with floatables control system

All six Wet Weather Overflow Pumps are now fully operational and freeze protection is in place. Completed repairs to Pumps WW-A, B and C discharge piping related to freezing issue.

**Industrial Users**

Industrial users are being notified that Sayreville Pump Station and Edison Pump Station currently can convey average daily flows to the Central Treatment Plant and may resume discharging to their respective wastewater collection systems. Also, MCUA maintained the reduced trucked in waste rate until January 4, 2013. As of January 5, 2013 the Septage Rate is \$48.00/1000 gallons and the Industrial Rate is \$72.00/1000 gallons.

**Uncontrolled Overflows**

None as of January 26, 2013

**Controlled Overflows**

None as of January 17, 2013

**Middlesex County Landfill Extending Hours**

Middlesex County Landfill is fully operational and open to accept solid waste for disposal. The Landfill will continue to extend operating hours during the week. Below is the schedule for the Landfill in East Brunswick until further notice.

Monday through Friday	7:00am - 4:30 pm
Saturday	7:00am - 12:00 noon
Sunday	Closed

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